

# Accident / Incident Report Closed



Unit/Department	Process Area	Site	Report Number
South Operation-Elyria	General Catalyst - Building 31	ELYRIA	0084-SOPS-16-0014
Report Date	Incident Date	Incident Time	Copied From
01/22/2016	01/22/2016	09:45 AM	
Incident Location	Team Leader / Supervisor	Reported By	
Building 31 and 16	Brian Beller	Brian Beller	
Title of Event (Limit to 90 characters)	Category	Division / Bus. Group / Subgroup Code	
NOx release from Calciner #3 due to CTO kicking out.	<input type="checkbox"/> Safety & Health <input type="checkbox"/> Environmental	CC / G-CCP	
Incident Classification			
<input type="checkbox"/> Near Miss <input checked="" type="checkbox"/> Process Safety <input type="checkbox"/> Injury / Illness <input checked="" type="checkbox"/> Spill / Release <input type="checkbox"/> Permit / Regulatory Deviation <input type="checkbox"/> Fire <input type="checkbox"/> Odor Complaint <input type="checkbox"/> Property Loss <input type="checkbox"/> Citation / NOV <input type="checkbox"/> Health Exposure <input type="checkbox"/> Inspection <input type="checkbox"/> Major Incident <input type="checkbox"/> Non-Occupational <input type="checkbox"/> RMP <input type="checkbox"/> Contractor <input type="checkbox"/> Contractor Injury / Illness <input type="checkbox"/> Contract Injury / Illness <input type="checkbox"/> PSM <input type="checkbox"/> Plant Upset <input type="checkbox"/> EHS Management System Failure <input type="checkbox"/> Other			
Describe Event / What Happened			
<p>At 9:55 am the CTO kicked out while treating the exhaust from #3 calciner. On shift supervisor noticed a smell of NOx on the 2nd floor of building 31 and immediately investigated. During the investigation a maintenance worker announced over the radio that the CTO scrubber was alarming. The panel view for the department NOx detection was immediately checked to see if there was NOx over exposure limits in the building, and a 1.6 NOx registered at #2 calciner. The CTO was immediately checked and found that the burner was off line and the blower was on "low". It was then announced that we were evacuating the department due to visual NOx discharge from #3 calciner, and the alarm was pulled. The building was evacuated and on site ERT team responded to the evacuation. The building was swept and found no residual NOx was found and the building was cleared to re-enter. As a part of this incident exhaust flow was diverted from the CTO to the F1 to prevent NOx exposure in the building and caused a visible yellow stack for 8 minutes.</p>			
Immediate Corrective Action or Response			
Flow was diverted from the CTO to the F1 scrubber due to suction loss at the calciner.			
Immediate Cause			
unknown			
Spill Release Type(s)			
Non RQ Spill / Release			
Chemical(s) Involved	CAS #	Phy. State	Air
Nitrogen Dioxide (NOx)	10102-44-0	Gas	2.7
Disposition of Material	released in building 31 and through the F1 Scrubber stack	Land	Water
Weather Conditions	Skies:	Temperature:	Wind Direction:
			Wind Speed:
Cause Narrative			
<p>While the CTO was running and scrubbing #3 Calciner, the CTO Start up bypass valve which draws in fresh air during scrubber start up failed, causing a loss of suction to #3 Calciner and released NOx into the department causing an evacuation of building 31 &amp; 16.</p>			
Contributing Causes		Root/Primary Causes	
Bypass valve failed in the incorrect position, when the Solenoid failed.		15 - Design Input/Output      16 - Design Input LTA      16 - Design Input LTA	
Any known or potential off-site impacts?		PSM Incident?	
No		No	
		Estimated Cost: 2,000.00 USD	

Investigation Team	Jeff Lewis; Kristen Kaput; Justin Quach; Robert Scoggins; William Grodecki; Brian Beller; Andrea Bal; Douglas Stock
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Item	Corrective Action(s) to prevent recurrence	Responsible Person	Target Date	Final Closed Date	VC Req	VE Req
1	Evaluate bypass valve, to determine fail/closed or fail/open.	William Grodecki/NA/BASF	06/30/2016	06/30/2016	N	N

Approved By:	
Manager / Dept. Head	Leon Zavodnik 02/22/2016 10:37 AM
EHS Unit Coordinator	Valerie Douglas 02/23/2016 05:56 AM
Safety & I.H.	Nancy Gallagher 02/22/2016 10:01 AM
Ecology	Tim Anglin 02/22/2016 10:03 AM
Confidential	